

ABSTRACT

A combustion gas burner enabling a multi-stage control including a main casing on the bottom surface of which an air blower is mounted so that air can be supplied from the air blower through an air inlet formed in the lower portion of the main casing, a tube-shaped burner mounted on the main casing in which fire hole units each having a number of fire holes formed at a predetermined distance from one another are disposed on the upper end surface of the main casing in order to burn gas and air which are mixed and supplied to the tube-shaped burner, a plate-shaped burner which is detachably disposed between the fire hole units formed on the upper end surface of the tube-shaped burner, and includes fire hole units having a number of fire holes, a number of mixture supply tubes inserted in the tube-shaped burner and disposed at a predetermined distance so that gas and air are mixed and the mixed gas and air is supplied to the tube-shaped burner and the plate-shaped burner, a Venturi tube installed in front of the mixture supply tubes, mixing gas and air and playing a role of distributing an amount of flow of the mixed gas and air which is needed for independent combustion in each burner, and a manifold connected to the Venturi tube and the mixture supply tubes, controlling an amount of gas and air. A number of premixed combustion gas burners each having an identical output capacity of the burner, are disposed in parallel with one another and a number of operating burners is varied according to a desired calorie.